
U.S. Department of the Interior • U.S. Geological Survey

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CRUSHED STONE AND SAND AND GRAVEL IN THE FOURTH QUARTER OF 1997

An estimated 353.4 million metric tons of *crushed stone* were produced and shipped for consumption in the United States in the fourth quarter of 1997, an increase of 2.7% compared with the same period of 1996. The estimated annual production of *crushed stone* shipped for consumption in 1997 was 1.4 billion metric tons, a 5.3% increase compared with 1996. The 1997 total annual production of crushed stone was again the highest production ever recorded in the U.S.

The estimated output of *construction sand and gravel* produced for consumption in the fourth quarter of 1997 was 241.6 million metric tons, an increase of 6.7% compared with the same period of 1996. The estimated annual production of *construction sand and gravel* shipped for consumption in 1997 was 956.0 million metric tons, a 4.6% increase compared with 1996. The 1997 total annual production of *construction sand and gravel* was also the highest production ever recorded in the U.S.

The above estimates are based on information reported to the U.S. Geological Survey quarterly sample survey by the *crushed stone* and *sand and gravel* producers. The increases in production of both *crushed stone* and *construction sand and gravel* are mostly due to continued high level activity in commercial, public, and private construction work during the fourth quarter of 1997. It should be noted that in the fourth quarter of 1997 there was also an increase in portland cement consumption compared with the same period of 1996.

The USGS quarterly survey is a sample survey that generates production for consumption estimates by quarters for each State, except Alaska and Hawaii, and each geographic division, based on information reported voluntarily by a limited number of producing companies. Occasionally, the number of companies reporting in an area varies from quarter to quarter, or previously reported data by some companies are revised. As a result of

such changes in the size or the composition of the statistical sample, the estimated quantities for prior quarters are recalculated. The latest release of the Quarterly Mineral Industry Surveys contains the most recent estimated totals and percentage changes and supersedes previously published similar information.

The production for consumption estimates for *crushed stone* and *sand and gravel* are generated independently for each State and geographic division, which are treated as separate statistical sample areas. Therefore, some differences may exist between the total for a division and the sum of State totals that are part of the same geographic division.

The U.S. *crushed stone* production for consumption in the fourth quarter of 1997 increased in all geographic divisions except the Middle Atlantic (-2.6%), and the South Atlantic (-1.0%). Significant increases were recorded in the Mountain (11.7%), the Pacific (7.7%) and the East South Central (6.2%) divisions.

The leading geographic divisions for the total amount of *crushed stone* sold or used in the fourth quarter of 1997 were the South Atlantic with 79.7 million metric tons, or 22.6% of the U.S. total, followed by the East North Central with 71.4 million metric tons or 20.2%, and the East South Central division with 42.1 million metric tons or 11.9% of the total.

The estimated *construction sand and gravel* sold or used in the fourth quarter of 1997 increased in all geographic divisions except the East North Central (-3.4%), and the South Atlantic (-1.2%). Significant increases were recorded in the New England (33.2%), followed by the West North Central (16.0%), and the Pacific (13.0%).

The leading geographic divisions for the total amount of *construction sand and gravel* sold or used in the fourth quarter of 1997 were the East North Central with 51.0 million metric

tons, or 21.1% of the U.S. total, followed by the Pacific with 44.5 million metric tons or 18.4%, and the Mountain with 40.7 million metric tons or 16.8% of the total. The estimated totals by quarters for the geographic divisions do not include Alaska and Hawaii.

Despite the increases recorded at the national level, production for consumption of *crushed stone* declined in the fourth quarter of 1997 in 16 of the 40 estimated States. Significant decreases in production occurred in Kansas, Maryland, Massachusetts, New York, Oregon, Virginia and Washington. The five leading States in the production for consumption of *crushed stone* in the fourth quarter of 1997 were Pennsylvania, Texas, Illinois, Missouri, and Florida. Their combined total production for consumption represented 29.2% of the U.S. total.

Production for consumption of *construction sand and gravel* declined in 14 of the 43 estimated States, with significant decreases being recorded in Idaho, Indiana, New York, Oregon, and Texas. The five leading States in the production for consumption of *sand and gravel* in the fourth quarter of 1997

were California, Michigan, Ohio, Texas, and Arizona. Their combined total production for consumption represented 33.9% of the U.S. total.

A total of 380 companies representing *crushed stone* and *construction sand and gravel* producers reported production for consumption information to the fourth quarter sample survey. The large participation of the producing companies in this survey is reflected by the very good percentage coverage obtained for most geographic divisions and States. The percentage coverage indicates how much of the total estimated production for consumption for a State or a geographic division was actually reported by companies participating in this survey and was used to generate the estimated totals for that particular area.

The percent changes between the estimated production for consumption for the current quarter and the same quarter of the prior year included in this report are important indicators of the production/consumption trends occurring in a particular area of the country.

TABLE 1
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/
(Thousand metric tons and thousand dollars)

Region/Division	1996						1996 and 1997	
	Quantity					Value total 2/	Percent cover- age	Number of comp. 3/
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/			
Northeast:								
New England	1,700	8,500	10,100	8,300	28,700	203,000	46	16
Middle Atlantic	17,400	41,800	51,200	42,000	152,000	896,000	55	39
Midwest:								
East North Central	26,500	65,600	88,000	68,300	248,000	1,170,000	69	47
West North Central	22,100	39,500	47,300	38,700	148,000	765,000	52	42
South:								
South Atlantic	58,500	87,200	86,700	80,500	313,000	1,950,000	83	56
East South Central	25,400	42,400	47,300	39,600	155,000	758,000	66	21
West South Central	33,600	35,600	39,100	35,300	143,000	647,000	66	30
West:								
Mountain	6,600	10,800	11,600	9,800	38,800	229,000	48	20
Pacific 5/	16,400	21,600	24,400	21,700	84,100	516,000	40	25
Total 2/	208,200	353,000	405,700	344,100	6/1,330,000	6/7,180,000	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding and differences between projected totals by States and by divisions.

TABLE 1--Continued
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/
(Thousand metric tons and thousand dollars)

Region/Division	1997								Total 2/	Value Total 2/
	Quantity 1st qtr.	Percent change 4/	Quantity 2nd qtr.	Percent change 4/	Quantity 3rd qtr.	Percent change 4/	Quantity 4th qtr.	Percent change 4/		
Northeast:										
New England	2,200	27.3	8,400	-1.9	11,000	8.3	8,300	0.0	29,900	199,000
Middle Atlantic	21,300	22.5	45,900	9.7	54,900	7.3	40,900	-2.6	163,000	961,000
Midwest:										
East North Central	34,000	28.4	71,000	8.3	87,200	-0.9	71,400	4.6	264,000	1,240,000
West North Central	25,400	15.1	44,700	13.2	49,300	4.2	40,700	5.1	160,000	833,000
South:										
South Atlantic	69,800	19.4	88,100	1.0	90,700	4.7	79,700	-1.0	328,000	1,990,000
East South Central	29,000	14.4	43,600	2.9	49,800	5.1	42,100	6.2	164,000	820,000
West South Central	28,700	-14.6	37,700	6.0	40,600	4.1	36,100	2.3	143,000	642,000
West:										
Mountain	7,100	7.1	11,600	7.2	12,300	5.4	10,900	11.7	41,800	241,000
Pacific 5/	17,700	7.5	21,600	0.0	25,600	4.9	23,400	7.7	88,200	503,000
Total 2/	235,300	13.0	372,600	5.6	421,300	3.9	353,400	2.7	6/1,400,000	6/7,560,000

3/ Number of companies reporting for the quarterly survey.

4/ All percentage changes are calculated using unrounded totals.

5/ Does not include Alaska and Hawaii.

6/ Includes Alaska, Hawaii, and "Other" totals; see Table 3, footnote 6.

TABLE 2
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/
(Thousand metric tons and thousand dollars)

Region/Division							1996 and 1997	
	1996					Value total 2/	Percent cover- age	Number of comp. 3/
	Quantity							
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/			
Northeast:								
New England	4,300	11,000	14,400	10,800	40,500	202,000	18	22
Middle Atlantic	6,800	15,900	19,100	14,600	56,400	301,000	27	26
Midwest:								
East North Central	17,800	52,400	69,400	52,800	192,000	761,000	44	49
West North Central	9,400	28,500	36,400	22,100	96,400	324,000	24	35
South:								
South Atlantic	13,600	18,400	18,600	16,800	67,400	295,000	50	39
East South Central	7,400	12,500	12,700	10,200	42,900	182,000	37	21
West South Central	21,500	25,900	23,300	21,000	91,700	402,000	38	14
West:								
Mountain	32,500	42,900	43,700	38,700	158,000	670,000	42	33
Pacific 5/	27,300	43,200	49,300	39,300	159,000	817,000	50	27
Total 2/	140,600	250,700	287,000	226,300	6/914,000	6/4,000,000	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding and differences between projected totals by States and by divisions.

TABLE 2--Continued
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY DIVISION 1/
(Thousand metric tons and thousand dollars)

Region/Division	1997									
	Quantity 1st qtr.	Percent change 4/	Quantity 2nd qtr.	Percent change 4/	Quantity 3rd qtr.	Percent change 4/	Quantity 4th qtr.	Percent change 4/	Total 2/	Value total 2/
Northeast:										
New England	6,600	53.6	12,200	10.7	17,900	24.4	14,300	33.2	51,100	251,000
Middle Atlantic	7,100	4.1	17,900	12.5	19,900	4.2	14,900	2.0	59,800	322,000
Midwest:										
East North Central	21,500	21.2	54,200	3.4	66,500	-4.2	51,000	-3.4	193,000	769,000
West North Central	11,000	17.1	32,300	13.5	40,100	10.1	25,600	16.0	109,000	374,000
South:										
South Atlantic	16,100	18.3	19,700	7.2	19,700	5.9	16,600	-1.2	72,100	318,000
East South Central	7,400	-0.6	11,700	-6.1	13,400	5.3	11,300	10.9	43,900	187,000
West South Central	17,800	-17.1	23,900	-7.6	25,200	8.3	22,700	7.7	89,600	383,000
West:										
Mountain	31,300	-3.7	39,300	-8.5	45,900	5.1	40,700	5.0	157,000	663,000
Pacific 5/	33,500	22.6	44,400	2.7	49,300	0.0	44,500	13.0	172,000	896,000
Total 2/	152,300	8.3	255,600	1.9	298,000	3.8	241,600	6.7	6/956,000	6/4,190,000

3/ Number of companies reporting for the quarterly survey.

4/ All percent changes are calculated using unrounded totals.

5/ Does not include Alaska and Hawaii.

6/ Includes Alaska.

TABLE 3
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/
(Thousand metric tons and thousand dollars)

State	1996						1996 and 1997	
	Quantity					Value total 2/	Percent cover- age	Number of comp. 3/
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/			
Alabama	7,800	10,700	10,700	9,700	38,900	198,000	83	13
Alaska 5/ 6/	--	--	--	--	2,600	16,500	--	--
Arizona 7/	--	--	--	--	6,800	40,600	--	--
Arkansas	5,500	6,900	7,400	6,500	26,400	158,000	65	10
California	8,900	11,800	14,100	11,900	46,700	295,000	45	13
Colorado	1,400	3,100	3,000	2,600	9,940	64,900	70	6
Connecticut	200	2,300	2,900	1,300	6,720	55,000	31	4
Delaware 5/	--	--	--	--	--	--	--	--
Florida 6/	18,700	18,700	18,100	18,000	73,600	394,000	66	10
Georgia 6/	12,400	18,400	17,300	15,400	63,400	401,000	94	9
Hawaii 5/	--	--	--	--	6,560	77,500	--	--
Idaho 6/	600	600	1,500	1,200	3,960	20,200	22	3
Illinois	7,200	16,600	23,400	19,300	66,500	364,000	65	12
Indiana 6/	7,100	13,200	19,000	14,400	53,700	254,000	79	13
Iowa	4,300	9,700	11,600	8,800	34,400	202,000	49	7
Kansas	4,000	5,900	6,100	6,100	22,100	110,000	66	11
Kentucky 6/	7,500	14,700	21,200	15,000	58,500	243,000	39	8
Louisiana 6/ 7/	--	--	--	--	2,290	23,900	--	--
Maine	300	800	1,000	700	2,760	14,800	55	4
Maryland 6/	3,000	6,200	6,800	6,400	22,400	142,000	101	9
Massachusetts 6/	800	3,400	3,800	3,900	11,800	91,600	62	5
Michigan 6/	2,600	11,100	13,600	11,300	38,600	144,000	78	10
Minnesota	500	3,400	5,200	2,900	12,100	59,000	63	5
Mississippi 6/ 7/	--	--	--	--	2,180	9,300	--	--
Missouri	12,300	17,200	19,400	18,100	67,000	325,000	43	17
Montana 7/	--	--	--	--	2,000	8,580	--	--
Nebraska	1,000	1,800	1,900	1,600	6,370	39,800	92	6
Nevada	700	700	900	800	3,080	25,200	24	3
New Hampshire 6/	60	400	600	400	1,430	8,650	120	4
New Jersey	2,200	5,700	6,500	6,900	21,400	145,000	54	7
New Mexico 6/	600	1,200	900	700	3,480	18,800	33	4
New York	3,400	11,200	17,700	11,200	43,600	233,000	56	10
North Carolina	9,600	16,400	16,000	15,200	57,200	394,000	97	13
North Dakota 5/	--	--	--	--	--	--	--	--
Ohio	7,200	17,900	22,200	16,300	63,600	291,000	70	13
Oklahoma 6/	6,400	7,300	7,600	6,900	28,300	117,000	79	11
Oregon	4,500	6,400	5,900	5,200	22,000	102,000	38	11
Pennsylvania	11,800	24,900	26,800	23,900	87,400	518,000	55	21
Rhode Island 5/	--	--	--	--	1,440	9,680	--	--
South Carolina	4,900	6,700	6,500	5,800	23,800	146,000	101	9
South Dakota	500	1,300	2,600	1,300	5,640	28,700	65	5
Tennessee	8,100	15,700	16,800	14,600	55,100	305,000	74	8
Texas	20,900	20,700	23,600	21,300	86,500	341,000	58	12
Utah	1,000	900	1,200	1,200	4,380	19,100	77	4
Vermont 7/	--	--	--	--	4,560	22,800	--	--
Virginia	8,800	16,600	17,900	16,400	59,700	351,000	69	11
Washington	3,000	3,300	4,200	4,800	15,400	81,400	30	4
West Virginia 6/	1,800	3,700	3,900	3,200	12,700	78,400	59	7
Wisconsin	2,300	6,700	10,100	7,000	26,000	113,000	43	8
Wyoming	700	1,600	1,700	1,200	5,180	30,000	82	4
Other	--	--	--	--	9,400	53,000	--	--
Total	XX	XX	XX	XX	1,330,000	7,180,000	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding and differences between projected totals by States.

3/ Number of companies reporting for the quarterly survey.

4/ All percentage changes are calculated using unrounded totals.

TABLE 3--Continued
CRUSHED STONE SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/
(Thousand metric tons and thousand dollars)

State	1997								Total 2/	Value total 2/
	Quantity 1st qtr.	Percent change 4/	Quantity 2nd qtr.	Percent change 4/	Quantity 3rd qtr.	Percent change 4/	Quantity 4th qtr.	Percent change 4/		
Alabama	8,200	5.6	10,100	-5.3	10,200	-4.9	10,000	2.7	38,500	196,000
Alaska 5/ 6/	--	--	--	--	--	--	--	--	2,800	17,800
Arizona 7/	--	--	--	--	--	--	--	--	6,170	36,900
Arkansas	5,000	-10.1	7,400	7.4	8,700	17.4	7,500	14.8	28,600	171,000
California	10,100	12.6	12,600	6.7	14,300	1.7	14,900	25.3	51,800	328,000
Colorado	2,000	46.8	2,700	-13.3	2,900	-0.8	2,300	-11.4	9,850	64,300
Connecticut	200	7.8	1,600	-33.1	2,000	-32.4	1,500	10.5	5,160	42,400
Delaware 5/	--	--	--	--	--	--	--	--	--	--
Florida 6/	17,000	-9.2	17,300	-7.5	18,700	3.3	18,500	2.5	71,500	383,000
Georgia 6/	13,800	11.3	17,400	-5.4	18,700	8.3	16,100	4.7	66,000	417,000
Hawaii 5/	--	--	--	--	--	--	--	--	5,500	65,000
Idaho 6/	600	-3.8	1,400	135.9	2,600	74.2	2,500	106.5	7,180	36,600
Illinois	8,100	12.6	19,200	15.9	23,900	2.1	20,600	6.8	71,800	393,000
Indiana 6/	10,000	41.1	13,800	4.4	17,000	-11.0	14,200	-1.2	54,900	260,000
Iowa	5,500	28.0	11,900	22.7	11,700	0.7	9,800	10.5	38,800	228,000
Kansas	4,400	9.5	6,300	6.1	6,500	6.1	5,500	-9.5	22,600	113,000
Kentucky 6/	9,700	29.3	17,700	20.4	23,700	11.6	17,500	16.5	68,600	285,000
Louisiana 6/ 7/	--	--	--	--	--	--	--	--	1,610	16,800
Maine	400	25.2	900	23.8	1,300	32.9	700	-1.4	3,330	17,900
Maryland 6/	5,400	84.4	6,600	5.2	6,800	-0.6	5,900	-8.3	24,600	156,000
Massachusetts 6/	900	22.6	3,300	-2.0	4,200	11.1	3,300	-15.4	11,700	91,100
Michigan 6/	2,800	7.5	12,100	8.5	14,300	5.0	12,400	9.9	41,500	155,000
Minnesota	500	2.2	3,500	1.2	5,100	-2.4	3,500	19.3	12,600	61,400
Mississippi 6/ 7/	--	--	--	--	--	--	--	--	1,890	8,070
Missouri	13,400	9.2	18,900	9.9	20,700	6.8	19,200	6.2	72,300	351,000
Montana 7/	--	--	--	--	--	--	--	--	1,940	8,330
Nebraska	1,300	26.2	2,000	11.7	2,100	8.0	1,400	-11.5	6,810	42,500
Nevada	800	13.1	700	-7.7	700	-19.9	800	-0.1	2,950	24,100
New Hampshire 6/	100	113.4	500	26.3	700	22.0	700	61.3	1,980	12,000
New Jersey	3,200	42.1	5,800	1.1	7,200	9.3	6,700	-3.2	22,800	155,000
New Mexico 6/	600	-7.2	1,000	-16.5	500	-43.2	800	16.5	2,960	16,000
New York	3,700	8.5	12,800	13.7	17,200	-2.8	10,200	-8.8	44,000	235,000
North Carolina	12,600	31.3	18,100	10.7	18,000	12.4	15,500	1.9	64,200	442,000
North Dakota 5/	--	--	--	--	--	--	--	--	--	--
Ohio	10,000	39.5	18,200	1.8	22,200	0.1	16,600	1.7	67,100	307,000
Oklahoma 6/	6,600	2.4	8,600	18.5	8,600	11.8	7,600	9.2	31,300	130,000
Oregon	4,100	-9.0	5,400	-16.1	6,400	9.1	4,500	-15.0	20,300	94,200
Pennsylvania	14,500	23.0	27,300	9.9	30,500	13.6	24,000	0.5	96,300	571,000
Rhode Island 5/	--	--	--	--	--	--	--	--	1,400	9,500
South Carolina	5,400	9.6	6,700	1.1	6,600	2.6	5,900	3.1	24,700	151,000
South Dakota	800	54.9	2,000	56.0	2,800	8.1	1,800	36.6	7,310	37,200
Tennessee	9,900	22.7	16,000	2.3	18,400	9.6	15,500	6.6	59,900	331,000
Texas	16,800	-19.7	21,300	3.1	23,100	-2.3	21,000	-1.2	82,200	324,000
Utah	900	-12.7	1,600	72.7	1,900	54.2	1,900	54.3	6,240	27,200
Vermont 7/	--	--	--	--	--	--	--	--	5,120	25,600
Virginia	13,300	51.0	17,600	5.8	17,300	-3.0	14,300	-12.5	62,600	368,000
Washington	3,500	15.8	3,400	2.9	4,800	13.7	3,500	-27.6	15,200	80,500
West Virginia 6/	2,200	19.1	3,400	-7.8	3,800	-3.0	3,000	-8.0	12,400	76,400
Wisconsin	2,700	18.6	8,100	21.1	10,600	4.7	7,800	12.0	29,100	127,000
Wyoming	600	-11.5	1,700	5.0	1,400	-15.9	1,100	-6.3	4,830	28,000
Other	--	--	--	--	--	--	--	--	9,100	51,300
Total	XX	XX	XX	XX	XX	XX	XX	XX	1,400,000	7,560,000

5/ State not included in quarterly survey.

6/ To avoid disclosing proprietary data, certain State totals do not include all kinds of stone produced within the State; the portion not shown has been included with "Other."

7/ Owing to a low number of reporting companies, no production estimates by quarters were generated.

TABLE 4
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/
(Thousand metric tons and thousand dollars)

State	1996						1996 and 1997	
	Quantity					Value total 2/	Percent cover- age	Number of comp. 3/
	1st qtr.	2nd qtr.	3rd qtr.	4th qtr.	Total 2/			
Alabama	3,000	3,800	3,700	3,300	13,800	60,600	41	8
Alaska 5/	--	--	--	--	9,380	35,900	--	--
Arizona	10,000	11,300	10,700	10,000	41,900	199,000	65	9
Arkansas	2,500	3,000	3,000	2,500	11,000	43,500	55	4
California	17,900	28,100	31,300	25,800	103,000	583,000	58	15
Colorado	4,700	9,300	10,100	7,500	31,600	133,000	43	7
Connecticut	700	1,900	2,300	1,600	6,380	26,900	24	5
Delaware 6/	--	--	--	--	2,370	6,820	--	--
Florida	4,400	4,900	4,700	4,500	18,500	68,800	62	9
Georgia	1,400	1,800	1,800	1,500	6,520	24,500	30	6
Hawaii 5/	--	--	--	--	--	--	--	--
Idaho	3,200	3,200	3,800	4,500	14,700	46,100	21	3
Illinois	3,200	10,100	11,900	9,500	34,600	144,000	45	10
Indiana	2,700	6,900	9,100	6,100	24,800	100,000	57	9
Iowa	1,000	4,000	5,700	2,500	13,300	54,600	26	6
Kansas	1,500	4,300	3,300	2,400	11,500	31,300	35	5
Kentucky	1,000	2,100	2,200	1,900	7,310	25,600	23	3
Louisiana	2,700	3,200	2,900	2,700	11,500	53,200	56	4
Maine	400	1,600	2,600	1,700	6,440	27,500	19	4
Maryland	1,500	2,500	3,000	2,700	9,700	61,400	44	6
Massachusetts	2,100	3,700	4,600	3,800	14,200	82,500	16	6
Michigan	4,100	13,700	20,800	15,200	53,800	197,000	45	9
Minnesota	2,800	8,500	12,200	8,200	31,800	107,000	21	10
Mississippi	2,200	3,900	4,100	3,100	13,400	60,600	43	7
Missouri	1,300	2,800	3,400	2,300	9,820	35,600	46	5
Montana 6/	--	--	--	--	9,260	35,800	--	--
Nebraska	800	3,400	5,600	3,100	12,900	44,300	21	6
Nevada	5,900	5,800	5,200	5,500	22,400	113,000	41	5
New Hampshire	800	2,000	2,800	2,100	7,620	36,500	20	5
New Jersey	1,800	4,000	3,300	4,100	13,200	70,400	24	4
New Mexico	2,300	2,600	2,500	2,500	9,880	48,500	46	3
New York	3,200	7,800	10,200	6,900	28,100	145,000	22	11
North Carolina	1,900	2,700	2,800	2,600	10,000	50,500	35	5
North Dakota 5/	--	--	--	--	8,320	23,800	--	--
Ohio	4,600	12,500	16,200	13,200	46,600	215,000	45	15
Oklahoma	1,700	2,300	2,000	1,900	7,910	27,700	40	6
Oregon	2,800	4,400	6,100	5,000	18,300	86,800	28	6
Pennsylvania	1,900	4,100	5,500	3,700	15,100	85,600	38	12
Rhode Island 6/	--	--	--	--	1,990	13,300	--	--
South Carolina	1,800	2,500	2,400	2,100	8,780	29,000	49	5
South Dakota	500	2,400	4,100	1,800	8,750	27,700	18	5
Tennessee	1,000	2,600	2,800	2,000	8,380	35,300	34	6
Texas	14,600	17,400	15,300	13,900	61,300	278,000	31	7
Utah	2,700	6,900	8,800	6,400	24,700	80,500	33	4
Vermont	400	1,200	1,300	1,000	3,870	15,200	19	3
Virginia	1,800	2,800	2,800	2,500	9,780	45,800	66	8
Washington	6,500	10,500	12,300	8,600	37,900	162,000	38	9
West Virginia	200	500	600	400	1,730	7,710	91	4
Wisconsin	3,000	9,300	11,300	9,000	32,600	105,000	33	11
Wyoming 6/	--	--	--	--	3,420	14,700	--	--
Total	XX	XX	XX	XX	914,000	4,000,000	XX	XX

XX Not applicable.

1/ Quarterly totals shown are estimates based on a sample survey. Estimated quantities for prior quarters have been recalculated.

2/ Data may not add to totals shown because of independent rounding and differences between projected totals by States.

3/ Number of companies reporting for the quarterly survey.

TABLE 4--Continued
SAND AND GRAVEL SOLD OR USED BY PRODUCERS IN THE UNITED STATES, BY STATE 1/
(Thousand metric tons and thousand dollars)

State	1997									Value total 2/
	Quantity 1st qtr.	Per- cent change 4/	Quantity 2nd qtr.	Per- cent change 4/	Quantity 3rd qtr.	Per- cent change 4/	Quantity 4th qtr.	Per- cent change 4/	Total 2/	
Alabama	2,500	-17.4	3,800	-1.0	4,100	10.9	3,700	12.8	14,100	61,700
Alaska 5/	--	--	--	--	--	--	--	--	8,500	32,600
Arizona	9,200	-8.3	10,400	-7.3	11,000	3.2	10,300	3.6	41,000	194,000
Arkansas	2,300	-9.7	3,300	10.6	3,600	21.5	2,900	15.4	12,100	47,800
California	22,000	23.3	28,200	0.3	31,900	1.9	29,800	15.9	112,000	634,000
Colorado	6,000	27.5	8,600	-7.9	10,200	0.9	8,300	10.6	33,000	139,000
Connecticut	800	20.8	1,600	-13.1	2,300	-0.7	2,100	33.8	6,790	28,600
Delaware 6/	--	--	--	--	--	--	--	--	1,840	5,310
Florida	4,400	0.6	5,000	1.5	5,200	11.5	4,600	2.2	19,200	71,500
Georgia	1,300	-4.8	1,800	-0.5	1,700	-2.3	1,400	-11.8	6,220	23,400
Hawaii 5/	--	--	--	--	--	--	--	--	--	--
Idaho	3,000	-7.3	4,200	31.3	4,400	14.6	2,800	-36.3	14,400	45,200
Illinois	3,800	20.2	11,200	11.6	12,200	2.5	9,000	-5.6	36,200	151,000
Indiana	3,300	20.8	6,200	-10.1	6,200	-32.0	4,900	-20.4	20,500	82,700
Iowa	1,000	-1.9	4,000	-0.6	5,100	-10.7	3,200	28.0	13,400	54,800
Kansas	1,800	21.6	3,400	-20.4	3,300	0.7	2,700	11.5	11,200	30,600
Kentucky	1,300	26.5	2,100	0.6	2,400	6.2	2,100	7.7	7,880	27,600
Louisiana	2,100	-23.5	3,100	-4.6	3,100	6.5	3,600	31.0	11,700	54,300
Maine	400	-17.8	1,700	5.6	3,000	15.2	2,400	40.7	7,560	32,300
Maryland	2,300	52.0	2,900	16.4	3,000	-2.8	2,500	-6.0	10,700	67,500
Massachusetts	3,000	44.4	3,600	-3.3	4,500	-1.3	4,700	22.0	15,800	91,600
Michigan	5,500	31.8	15,300	12.2	21,800	4.6	15,000	-1.0	57,600	211,000
Minnesota	2,100	-27.7	14,500	70.1	18,100	48.7	9,900	20.3	44,600	150,000
Mississippi	2,200	-1.8	3,300	-16.4	3,800	-8.3	3,400	10.0	12,700	57,300
Missouri	1,700	29.2	2,600	-9.9	3,200	-4.6	2,500	11.7	10,000	36,400
Montana 6/	--	--	--	--	--	--	--	--	9,220	35,600
Nebraska	1,700	115.7	4,000	17.0	5,200	-8.0	3,300	5.7	14,100	48,500
Nevada	5,100	-12.7	4,000	-32.0	4,700	-10.2	5,000	-8.8	18,800	94,700
New Hampshire	2,200	186.6	3,600	83.0	5,600	101.5	3,400	60.8	14,800	70,800
New Jersey	2,600	50.3	5,200	28.8	4,600	38.8	5,200	26.1	17,600	93,900
New Mexico	1,800	-24.0	2,500	-4.2	2,600	2.2	1,900	-22.4	8,720	42,800
New York	3,300	4.1	8,400	6.9	10,300	1.1	6,200	-10.2	28,200	145,000
North Carolina	2,900	50.8	3,300	25.0	3,200	14.6	2,900	10.9	12,300	62,300
North Dakota 5/	--	--	--	--	--	--	--	--	8,320	24,400
Ohio	6,000	28.5	11,400	-9.0	16,000	-1.3	13,600	3.3	47,000	217,000
Oklahoma	1,700	3.8	2,600	10.5	2,600	30.2	2,100	12.9	9,070	31,800
Oregon	3,800	36.4	6,100	38.5	5,300	-13.5	4,400	-12.8	19,500	92,700
Pennsylvania	1,400	-24.0	4,400	8.4	5,100	-6.0	3,600	-2.5	14,600	82,600
Rhode Island 6/	--	--	--	--	--	--	--	--	1,970	13,200
South Carolina	2,000	8.8	2,400	-3.4	2,400	3.4	2,100	3.2	9,000	29,700
South Dakota	900	76.8	2,400	0.1	3,900	-5.5	2,100	16.4	9,200	29,100
Tennessee	1,400	44.9	2,600	0.8	3,400	21.9	2,200	10.8	9,670	40,700
Texas	11,700	-20.3	14,500	-17.2	15,400	0.7	13,300	-4.0	54,900	249,000
Utah	2,800	6.7	6,900	0.5	10,900	24.3	9,700	52.6	30,400	99,000
Vermont	200	-35.9	900	-26.0	1,500	12.6	1,000	3.5	3,640	14,300
Virginia	2,500	38.7	3,100	12.7	2,900	3.9	2,300	-7.2	10,800	50,400
Washington	7,500	15.5	10,700	1.0	12,000	-2.5	9,500	11.0	39,600	169,000
West Virginia	200	3.5	500	3.1	600	8.4	400	-1.6	1,800	8,010
Wisconsin	2,700	-11.6	10,600	14.0	10,900	-2.9	9,100	1.2	33,300	107,000
Wyoming 6/	--	--	--	--	--	--	--	--	2,980	12,800
Total	XX	XX	XX	XX	XX	XX	XX	XX	956,000	4,190,000

4/ All percentage changes are calculated using unrounded totals.

5/ State not included in quarterly survey.

6/ Owing to a low number of reporting companies, no production estimates by quarters were generated.